

ABSTRACT

In a CDMA-system based mobile station or an equivalent, to provide a high-precision measurement of a fading pitch without using a plurality of branches (antennas) for receiving a plurality of reception waves which may appear to have no correlation to one another, a plurality of despreading devices 5a, 5b, 5c, 5d connected to a shared reception system is provided for performing despreading for each multipath. Signals outputted from the plurality of despreading devices 5a, 5b, 5c, 5d are synthesized with a phase difference in each multipath being maintained by a first synthesizer 6 to obtain a synthesized signal. A fading pitch f_D is detected based upon the synthesized signal by a fading pitch detector 7